

## SUBJECT INDEX

**Accident data**

Identifying Root Causes of Construction Accidents, Tariq S. Abdelhamid and John G. Everett, CO Jan./Feb. 00, p52-60.

**Accident prevention**

Development of Causal Model of Construction Accident Causation, Akhmad Suraji, A. Roy Duff and Stephen J. Peckitt, CO July/Aug. 01, p337-344.

Technological Intervention to Eliminate Back Injury Risks for Nailing, Leonhard E. Bernold, Steven J. Lorenc and Maureen L. Davis, CO May/June 01, p245-250.

**Accidents**

Identifying Root Causes of Construction Accidents, Tariq S. Abdelhamid and John G. Everett, CO Jan./Feb. 00, p52-60.

**Accuracy**

Predicting Accuracy of Early Cost Estimates Based on Estimate Quality, Garold D. Oberlender and Steven M. Trost, CO May/June 01, p173-182.

**Air pollution**

Estimation of CO<sub>2</sub> Emissions in Life Cycle of Residential Buildings, Seongwon Seo and Yongwoo Hwang, CO Sept./Oct. 01, p414-418.

**Algorithms**

Applying Modified Minimum Moment Method to Multiple Resource Leveling, Mohammed A. Salem Hiyasat, CO May/June 01, p192-198.

Genetic Algorithm for Optimizing Supply Locations around Tower Crane, C. M. Tam, Thomas K. L. Tong and Wilson K. W. Chan, CO July/Aug. 01, p315-321.

Improvement Algorithm for Limited Space Scheduling, P. P. Zouein and I. D. Tommelein, CO Mar./Apr. 01, p116-124.

**Analysis**

Design and Build Project Success Factors: Multivariate Analysis, Albert P. C. Chan, Danny C. K. Ho and C. M. Tam, CO Mar./Apr. 01, p93-100.

**Asphalt pavements**

Status of Roller Mountable Microwave Asphalt Pavement Density Sensor, Edward J. Jaselskis, Hsiu C. Han, Jonas Grigas, Lawrence Tan and Daniel Fahrion, CO Jan./Feb. 01, p46-52.

**Bids**

Bid-Spread, Martin Skitmore, Derek Drew and Stephen Ngai, CO Mar./Apr. 01, p149-153.

Case-Based Reasoning Approach in Bid Decision Making, D. K. H. Chua, D. Z. Li and W. T. Chan, CO Jan./Feb. 01, p35-45.

Cost Analysis between SABER and Design Bid Build Contracting Methods, Elwood Henry and Heidi S. Brothers, P.E., CO Sept./Oct. 01, p359-366.

Optimum Planning of Highway Construction under A + B Bidding Method, Khaled El-Rayes, CO July/Aug. 01, p261-269.

**Bridge construction**

Constructability Improvement of Bridges Using Stepping Formwork, Mohamed Emam Abd El-Razek and Ismail M. Basha, CO May/June 01, p206-213.

Model for Evaluating Bridge Construction Plans, Tamer E. El-Daraby and James T. O'Connor, CO Sept./Oct. 01, p399-405.

**Bridge maintenance**

Quality Control Parameters for Robotic Bridge Painting, Yong Bai and Leonhard E. Bernold, CO Mar./Apr. 01, p142-148.

**Bridges, concrete**

Constructability Improvement of Bridges Using Stepping Formwork, Mohamed Emam Abd El-Razek and Ismail M. Basha, CO May/June 01, p206-213.

**Bridges, spans**

Constructability Improvement of Bridges Using Stepping Formwork, Mohamed Emam Abd El-Razek and Ismail M. Basha, CO May/June 01, p206-213.

**Budgeting**

BOT Financial Model: Taiwan High Speed Rail Case, Luh-Maan Chang and Po-Han Chen, CO May/June 01, p214-222.

**Building design**

Design and Construction of High Multitier Shoring Towers: Case Study, Aviad Shapira, Yaakov Shahar and Yoram Raz, CO Mar./Apr. 01, p108-115.

**Buildings, residential**

Customer Satisfaction in Home Building, Zeljko M. Torbica and Robert C. Stroh, CO Jan./Feb. 01, p82-86.

Estimation of CO<sub>2</sub> Emissions in Life Cycle of Residential Buildings, Seongwon Seo and Yongwoo Hwang, CO Sept./Oct. 01, p414-418.

**Capital costs**

BOT Financial Model: Taiwan High Speed Rail Case, Luh-Maan Chang and Po-Han Chen, CO May/June 01, p214-222.

**Carbon dioxide**

Estimation of CO<sub>2</sub> Emissions in Life Cycle of Residential Buildings, Seongwon Seo and Yongwoo Hwang, CO Sept./Oct. 01, p414-418.

**Case reports**

Design and Construction of High Multitier Shoring Towers: Case Study, Aviad Shapira, Yaakov Shahar and Yoram Raz, CO Mar./Apr. 01, p108-115.

**Cast-in-place structures**

Constructability Improvement of Bridges Using Stepping Formwork, Mohamed Emam Abd El-Razek and Ismail M. Basha, CO May/June 01, p206-213.

**Change management**

Improving Design Coordination for Building Projects. I: Information Model, Tarek Hegazy, Essam Zaneldin and Donald Grierson, CO July/Aug. 01, p322-329.

**China**

Risk Assessment for Construction Joint Ventures in China, L. Y. Shen, George W. C. Wu and Catherine S. K. Ng, CO Jan./Feb. 01, p76-81.

**Claims**

Construction Contractors Claim Process Framework, G. K. Kululanga, W. Kuotcha, R. McCaffer and F. Edum-Fotwe, CO July/Aug. 01, p309-314.

**Client relationships**

Customer Satisfaction in Home Building, Zeljko M. Torbica and Robert C. Stroh, CO Jan./Feb. 01, p82-86.

**Comparative studies**

Comparison of Two Maintainability Programs, Blia Moua and Jeffrey S. Russell, CO May/June 01, p239-244.

**Competition**

Case-Based Reasoning Approach in Bid Decision Making, D. K. H. Chua, D. Z. Li and W. T. Chan, CO Jan./Feb. 01, p35-45.

**Computer aided simulation**

VIRCON: Interactive System for Teaching Construction Management, Ali Jaafari, Kitsana K. Manivong and Michel Chaaya, CO Jan./Feb. 01, p66-75.

**Computer applications**

Improving Design Coordination for Building Projects. I: Information Model, Tarek Hegazy, Essam Zaneldin and Donald Grierson, CO July/Aug. 01, p322-329.

Improving Design Coordination for Building Projects. II: A Collaborative System, Essam Zaneldin, Tarek Hegazy and Donald Grierson, CO July/Aug. 01, p330-336.

Simplified Spreadsheet Solutions. I. Subcontractor Information System, Tarek Hegazy and Tolga Ersahin, CO Nov./Dec. 01, p461-468.

Simplified Spreadsheet Solutions. II. Overall Schedule Optimization, Tarek Hegazy and Tolga Ersahin, CO Nov./Dec. 01, p469-475.

**Computer software**

Project Management in Construction: Software Use and Research Directions, Matthew J. Liberatore, Bruce Pollack-Johnson and Colleen A. Smith, CO Mar./Apr. 01, p101-107.

**Concrete construction**

Simulation as a Tool for Resource Management, Tarek M. Zayed and Daniel Halpin, CO Mar./Apr. 01, p132-141.

**Concrete, precast**

Just-in-Time Management of Precast Concrete Components, Low Sui Pheng and Choong Joo Chuan, CO Nov./Dec. 01, p494-501.

**Conflict**

A Model for Understanding, Preventing, and Resolving Project Disputes, Panagiotis Mitropoulos and Gregory Howell, CO May/June 01, p223-231.

**Constructability**

Benefits of Constructability on Construction Projects, George Jergas, P.E. and John Van der Put, P.E., CO July/Aug. 01, p281-290.

Constructability Improvement of Bridges Using Stepping Formwork, Mohamed Emam Abd El-Razek and Ismail M. Basha, CO May/June 01, p206-213.

**Construction**

Construction Surety Bonding, Roozbeh Kangari and Moataz Bakheet, CO May/June 01, p232-238.

Developing a Draft Schedule Using Templates and Rules, Nicola J. Chevallier and Alan D. Russell, CO Sept./Oct. 01, p391-398.

Estimating Labor Production Rates for Industrial Construction Activities, S. AbouRizk, P. Knowles and U. R. Hermann, CO Nov./Dec. 01, p502-511.

Human Effects in Construction Contract Price Forecasting: Experience and Experiential Learning Styles, David J. Lowe and R. Martin Skitmore, CO Nov./Dec. 01, p485-493.

Improvement Algorithm for Limited Space Scheduling, P. P. Zouein and I. D. Tommelein, CO Mar./Apr. 01, p116-124.

A Model for Understanding, Preventing, and Resolving Project Disputes, Panagiotis Mitropoulos and Gregory Howell, CO May/June 01, p223-231.

Object-Oriented Model for Repetitive Construction Scheduling, Khaled El-Rayes, CO May/June 01, p199-205.

Project Management in Construction: Software Use and Research Directions, Matthew J. Liberatore, Bruce Pollack-Johnson and Colleen A. Smith, CO Mar./Apr. 01, p101-107.

Time Series Analysis for Construction Productivity Experiments, Tariq S. Abdelhamid and John G. Everett, CO Mar./Apr. 99, p87-95.

**Construction costs**

Cost Analysis between SABER and Design Bid Build Contracting Methods, Elwood Henry and Heidi S. Brothers, P.E., CO Sept./Oct. 01, p359-366.

Predicting Accuracy of Early Cost Estimates Based on Estimate Quality, Garold D. Oberlender and Steven M. Trost, CO May/June 01, p173-182.

**Construction industry**

Comparison of Linear Scheduling Method (LSM) and Critical Path Method (CPM), René A. Yamin and David J. Harmelink, CO Sept./Oct. 01, p374-381.

Construction Contractors Claim Process Framework, G. K. Kululanga, W. Kuotcha, R. McCaffer and F. Edum-Fotwe, CO July/Aug. 01, p309-314.

Evaluation of Drug Testing in the Workplace: Study of the Construction Industry, Jonathan K. Gerber and George S. Yacoubian, Jr., CO Nov./Dec. 01, p438-444.

Risk Assessment for Construction Joint Ventures in China, L. Y. Shen, George W. C. Wu and Catherine S. K. Ng, CO Jan./Feb. 01, p76-81.

Technological Intervention to Eliminate Back Injury Risks for Nailing, Leonhard E. Bernold, Steven J. Lorenc and Maureen L. Davis, CO May/June 01, p245-250.

Time-Overrun Factors in Nigerian Construction Industry, Augustine Uche Elinwa and Mangwvat Joshua, CO Sept./Oct. 01, p419-425.

U.S. Construction Labor Productivity Trends, 1970-1998, Eric Allmon, Carl T. Haas, John D. Borchering and Paul M. Goodrum, CO Mar./Apr. 00, p97-104.

**Construction management**

Benefits of Constructability on Construction Projects, George Jergas, P.E. and John Van der Put, P.E., CO July/Aug. 01, p281-290.

Comparison of Two Maintainability Programs, Blia Moua and Jeffrey S. Russell, CO May/June 01, p239-244.

Cost Optimization in Projects with Repetitive Nonserial Activities, Tarek Hegazy and Nagib Wassef, CO May/June 01, p183-191.

Improving Design Coordination for Building Projects. I: Information Model, Tarek Hegazy, Essam Zaneldin and Donald Grierson, CO July/Aug. 01, p322-329.

Improving Design Coordination for Building Projects. II: A Collaborative System, Essam Zanelidin, Tarek Hegazy and Donald Grierson, CO July/Aug. 01, p330-336.

Just-in-Time Management of Precast Concrete Components, Low Sui Pheng and Choong Joo Chuan, CO Nov./Dec. 01, p494-501.

Optimal Repetitive Scheduling Model with Shareable Resource Constraint, Sou-Sen Leu and Shao-Ting Hwang, CO July/Aug. 01, p270-280.

Optimizing Resource Utilization for Repetitive Construction Projects, Khaled El-Rayes and Osama Moselhi, CO Jan./Feb. 01, p18-27.

Partnering on Small Construction Projects, Michael A. Conley and Rita A. Gregory, CO Sept./Oct. 99, p320-324.

Procurement Protocols for Public-Private Partnered Projects, Xue-Qing Zhang and Mohan M. Kumaraswamy, CO Sept./Oct. 01, p351-358.

Simplified Program Evaluation and Review Technique (PERT), Wayne D. Cottrell, P.E., CO Jan./Feb. 99, p16-22.

Simplified Spreadsheet Solutions. I. Subcontractor Information System, Tarek Hegazy and Tolga Ersahin, CO Nov./Dec. 01, p461-468.

Simplified Spreadsheet Solutions. II. Overall Schedule Optimization, Tarek Hegazy and Tolga Ersahin, CO Nov./Dec. 01, p469-475.

Simulation as a Tool for Resource Management, Tarek M. Zayed and Daniel Halpin, CO Mar./Apr. 01, p132-141.

VIRCON: Interactive System for Teaching Construction Management, Ali Jaafari, Kitsana K. Manivong and Michel Chaaya, CO Jan./Feb. 01, p66-75.

#### Construction materials

GIS-Based Cost Estimates Integrating with Material Layout Planning, Min-Yuan Cheng and Shin-Ching Yang, CO July/Aug. 01, p291-299.

#### Construction planning

Applying Modified Minimum Moment Method to Multiple Resource Leveling, Mohammed A. Salem Hiyasat, CO May/June 01, p192-198.

Construction Delay Computation Method, Jonathan Jingsheng Shi, S. O. Cheung and David Arditi, CO Jan./Feb. 01, p60-65.

Dynamic Planning and Control Methodology for Design/Build Fast-Track Construction Projects, Feniosky Peña-Mora and Michael Li, CO Jan./Feb. 01, p1-17.

GIS-Based Cost Estimates Integrating with Material Layout Planning, Min-Yuan Cheng and Shin-Ching Yang, CO July/Aug. 01, p291-299.

Model for Evaluating Bridge Construction Plans, Tamer E. El-Diraby and James T. O'Connor, CO Sept./Oct. 01, p399-405.

Optimum Planning of Highway Construction under A + B Bidding Method, Khaled El-Rayes, CO July/Aug. 01, p261-269.

Project Management in Construction: Software Use and Research Directions, Matthew J. Liberatore, Bruce Pollack-Johnson and Colleen A. Smith, CO Mar./Apr. 01, p101-107.

Simplified Program Evaluation and Review Technique (PERT), Wayne D. Cottrell, P.E., CO Jan./Feb. 99, p16-22.

VIRCON: Interactive System for Teaching Construction Management, Ali Jaafari, Kitsana K. Manivong and Michel Chaaya, CO Jan./Feb. 01, p66-75.

#### Construction site accidents

Development of Causal Model of Construction Accident Causation, Akhmad Suraji, A. Roy Duff and Stephen J. Peckitt, CO July/Aug. 01, p337-344.

Identifying Root Causes of Construction Accidents, Tariq S. Abdelhamid and John G. Everett, CO Jan./Feb. 00, p52-60.

#### Construction sites

Applications of Horizontal Characterization Techniques in Trenchless Construction, Erez N. Allouche, Samuel T. Ariaratnam and Simon M. AbouRizk, CO Nov./Dec. 01, p476-484.

Dust Suppression Using Truck-Mounted Water Spray System, John A. Gambatese, P.E. and David E. James, P.E., CO Jan./Feb. 01, p53-59.

Genetic Algorithm for Optimizing Supply Locations around Tower Crane, C. M. Tam, Thomas K. L. Tong and Wilson K. W. Chan, CO July/Aug. 01, p315-321.

Improvement Algorithm for Limited Space Scheduling, P. P. Zouein and I. D. Tommelein, CO Mar./Apr. 01, p116-124.

#### Contract terms

Construction Surety Bonding, Roozbeh Kangari and Moataz Bakheet, CO May/June 01, p232-238.

#### Contractors

Construction Contractors Claim Process Framework, G. K. Kululanga, W. Kuotcha, R. McCaffery and F. Edum-Fotwe, CO July/Aug. 01, p309-314.

Just-in-Time Management of Precast Concrete Components, Low Sui Pheng and Choong Joo Chuan, CO Nov./Dec. 01, p494-501.

#### Contracts

Construction Surety Bonding, Roozbeh Kangari and Moataz Bakheet, CO May/June 01, p232-238.

Cost Analysis between SABER and Design Bid Build Contracting Methods, Elwood Henry and Heidi S. Brothers, P.E., CO Sept./Oct. 01, p359-366.

A Model for Understanding, Preventing, and Resolving Project Disputes, Panagiotis Mitropoulos and Gregory Howell, CO May/June 01, p223-231.

#### Cost analysis

Cost Analysis between SABER and Design Bid Build Contracting Methods, Elwood Henry and Heidi S. Brothers, P.E., CO Sept./Oct. 01, p359-366.

Predicting Accuracy of Early Cost Estimates Based on Estimate Quality, Garold D. Oberlender and Steven M. Trost, CO May/June 01, p173-182.

#### Cost control

Resource Scheduling Using Neural Dynamics Model of Adeli and Park, Ahmed B. Senouci and Hoojat Adeli, CO Jan./Feb. 01, p28-34.

#### Cost effectiveness

Cost Optimization in Projects with Repetitive Nonserial Activities, Tarek Hegazy and Nagib Wassef, CO May/June 01, p183-191.

Probabilistic Optimal-Cost Scheduling, Leroy J. Isidore and W. Edward Back, CO Nov./Dec. 01, p431-437.

#### Cost estimates

GIS-Based Cost Estimates Integrating with Material Layout Planning, Min-Yuan Cheng and Shin-Ching Yang, CO July/Aug. 01, p291-299.

Predicting Accuracy of Early Cost Estimates Based on Estimate Quality, Garold D. Oberlender and Steven M. Trost, CO May/June 01, p173-182.

Simplified Spreadsheet Solutions. I. Subcontractor Information System, Tarek Hegazy and Tolga Ersahin, CO Nov./Dec. 01, p461-468.

#### Cranes

Genetic Algorithm for Optimizing Supply Locations around Tower Crane, C. M. Tam, Thomas K. L. Tong and Wilson K. W. Chan, CO July/Aug. 01, p315-321.

#### Critical path method

Comparison of Linear Scheduling Method (LSM) and Critical Path Method (CPM), René A. Yamin and David J. Harmelink, CO Sept./Oct. 01, p374-381.

Project Management in Construction: Software Use and Research Directions, Matthew J. Liberatore, Bruce Pollack-Johnson and Colleen A. Smith, CO Mar./Apr. 01, p101-107.

Simplified CPM/PERT Simulation Model, Ming Lu and S. M. AbouRizk, CO May/June 00, p219-226.

#### Data collection

Project Management in Construction: Software Use and Research Directions, Matthew J. Liberatore, Bruce Pollack-Johnson and Colleen A. Smith, CO Mar./Apr. 01, p101-107.

#### Decision making

Approaches for Making Risk-Based GO/NO-GO Decision for International Projects, Seung H. Han and James E. Diekmann, CO July/Aug. 01, p300-308.

Case-Based Reasoning Approach in Bid Decision Making, D. K. H. Chua, D. Z. Li and W. T. Chan, CO Jan./Feb. 01, p35-45.

Simulation as a Tool for Resource Management, Tarek M. Zayed and Daniel Halpin, CO Mar./Apr. 01, p132-141.

#### Decision support systems

Impact of Rainfall on the Productivity of Highway Construction, Khaled El-Rayes and Osama Moselhi, CO Mar./Apr. 01, p125-131.

#### Delay time

Construction Delay Computation Method, Jonathan Jingsheng Shi, S. O. Cheung and David Arditi, CO Jan./Feb. 01, p60-65.

#### Density measurement

Status of Roller Mountable Microwave Asphalt Pavement Density Sensor, Edward J. Jaselskis, Hsiu C. Han, Jonas Grigas, Lawrence Tan and Daniel Fahrion, CO Jan./Feb. 01, p46-52.

#### Design data

Improving Design Coordination for Building Projects. I: Information Model, Tarek Hegazy, Essam Zanelidin and Donald Grierson, CO July/Aug. 01, p322-329.

Improving Design Coordination for Building Projects. II: A Collaborative System, Essam Zanelidin, Tarek Hegazy and Donald Grierson, CO July/Aug. 01, p330-336.

#### Design/build

Cost Analysis between SABER and Design Bid Build Contracting Methods, Elwood Henry and Heidi S. Brothers, P.E., CO Sept./Oct. 01, p359-366.

Dynamic Planning and Control Methodology for Design/Build Fast-Track Construction Projects, Feniosky Peña-Mora and Michael Li, CO Jan./Feb. 01, p1-17.

#### Dispute resolution

A Model for Understanding, Preventing, and Resolving Project Disputes, Panagiotis Mitropoulos and Gregory Howell, CO May/June 01, p223-231.

#### Drilling

Applications of Horizontal Characterization Techniques in Trenchless Construction, Erez N. Allouche, Samuel T. Ariaratnam and Simon M. AbouRizk, CO Nov./Dec. 01, p476-484.

#### Dust

Dust Suppression Using Truck-Mounted Water Spray System, John A. Gambatese, P.E. and David E. James, P.E., CO Jan./Feb. 01, p53-59.

#### Dynamic models

Dynamic Planning and Control Methodology for Design/Build Fast-Track Construction Projects, Feniosky Peña-Mora and Michael Li, CO Jan./Feb. 01, p1-17.

#### Dynamic programming

Object-Oriented Model for Repetitive Construction Scheduling, Khaled El-Rayes, CO May/June 01, p199-205.

Optimizing Resource Utilization for Repetitive Construction Projects, Khaled El-Rayes and Osama Moselhi, CO Jan./Feb. 01, p18-27.

#### Earthmoving

Earthmoving Productivity Estimation using Linear Regression Techniques, Simon D. Smith, CO May/June 99, p133-141.

#### Egypt

Constructability Improvement of Bridges Using Stepping Formwork, Mohamed Emam Abd El-Razek and Ismail M. Basha, CO May/June 01, p206-213.

#### Emissions

Estimation of CO2 Emissions in Life Cycle of Residential Buildings, Seongwon Seo and Yongwoo Hwang, CO Sept./Oct. 01, p414-418.

#### Employees

Evaluation of Drug Testing in the Workplace: Study of the Construction Industry, Jonathan K. Gerber and George S. Yacoubian, Jr., CO Nov./Dec. 01, p438-444.

#### Engineers

Work-Time Model for Engineers, Andrew Shing-Tao Chang, P.E., CO Mar./Apr. 01, p163-172.

#### Estimation

Earthmoving Productivity Estimation using Linear Regression Techniques, Simon D. Smith, CO May/June 99, p133-141.

Estimating Labor Production Rates for Industrial Construction Activities, S. AbouRizk, P. Knowles and U. R. Hermann, CO Nov./Dec. 01, p502-511.

Estimation of CO2 Emissions in Life Cycle of Residential Buildings, Seongwon Seo and Yongwoo Hwang, CO Sept./Oct. 01, p414-418.

#### Evaluation

Model for Evaluating Bridge Construction Plans, Tamer E. El-Diraby and James T. O'Connor, CO Sept./Oct. 01, p399-405.

#### Experience

Human Effects in Construction Contract Price Forecasting: Experience and Experiential Learning Styles, David J. Lowe and R. Martin Skitmore, CO Nov./Dec. 01, p485-493.

**Experimentation**

Time Series Analysis for Construction Productivity Experiments, Tariq S. Abdelhamid and John G. Everett, CO Mar./Apr. 99, p87-95.

**Expert systems**

Developing a Draft Schedule Using Templates and Rules, Nicola J. Chevallier and Alan D. Russell, CO Sept./Oct. 01, p391-398.

**Fast track construction**

Dynamic Planning for Fast-Tracking Building Construction Projects, Feniosky Pena-Mora and Moonseo Park, CO Nov./Dec. 01, p445-456.

**Financing**

BOT Financial Model: Taiwan High Speed Rail Case, Luh-Maan Chang and Po-Han Chen, CO May/June 01, p214-222.

**Foreign projects**

Approaches for Making Risk-Based GO/NO-GO Decision for International Projects, Seung H. Han and James E. Diekmann, CO July/Aug. 01, p300-308.

**Formwork, construction**

Constructability Improvement of Bridges Using Stepping Formwork, Mohamed Emam Abd El-Razek and Ismail M. Basha, CO May/June 01, p206-213.

Design and Construction of High Multitier Shoring Towers: Case Study, Aviad Shapira, Yaakov Shahar and Yoram Raz, CO Mar./Apr. 01, p108-115.

**Geographic information systems**

GIS-Based Cost Estimates Integrating with Material Layout Planning, Min-Yuan Cheng and Shin-Ching Yang, CO July/Aug. 01, p291-299.

**Government**

Procurement Protocols for Public-Private Partnered Projects, Xue-Qing Zhang and Mohan M. Kumaraswamy, CO Sept./Oct. 01, p351-358.

**Highway construction**

Earthmoving Productivity Estimation using Linear Regression Techniques, Simon D. Smith, CO May/June 99, p133-141.

Impact of Rainfall on the Productivity of Highway Construction, Khaled El-Rayes and Osama Moselhi, CO Mar./Apr. 01, p125-131.

Optimum Planning of Highway Construction under A + B Bidding Method, Khaled El-Rayes, CO July/Aug. 01, p261-269.

**Hong Kong**

Hong Kong Experience in Managing BOT Projects, Xue-qing Zhang and Mohan M. Kumaraswamy, CO Mar./Apr. 01, p154-162.

**Human factors**

Human Effects in Construction Contract Price Forecasting: Experience and Experiential Learning Styles, David J. Lowe and R. Martin Skitmore, CO Nov./Dec. 01, p485-493.

**Information management**

Improving Design Coordination for Building Projects. I: Information Model, Tarek Hegazy, Essam Zaneldin and Donald Grierson, CO July/Aug. 01, p322-329.

Improving Design Coordination for Building Projects. II: A Collaborative System, Essam Zaneldin, Tarek Hegazy and Donald Grierson, CO July/Aug. 01, p330-336.

**Information systems**

Simplified Spreadsheet Solutions. I. Subcontractor Information System, Tarek Hegazy and Tolga Ersahin, CO Nov./Dec. 01, p461-468.

**Infrastructure**

Hong Kong Experience in Managing BOT Projects, Xue-qing Zhang and Mohan M. Kumaraswamy, CO Mar./Apr. 01, p154-162.

Procurement Protocols for Public-Private Partnered Projects, Xue-Qing Zhang and Mohan M. Kumaraswamy, CO Sept./Oct. 01, p351-358.

Unraveling of BOT Scheme: Malaysia's Indah Water Consortium, Abdul-Rashid Abdul-Aziz, CO Nov./Dec. 01, p457-460.

**Injuries**

Evaluation of Drug Testing in the Workplace: Study of the Construction Industry, Jonathan K. Gerber and George S. Yacoubian, Jr., CO Nov./Dec. 01, p438-444.

Technological Intervention to Eliminate Back Injury Risks for Nailing, Leonhard E. Bernold, Steven J. Lorenc and Maureen L. Davis, CO May/June 01, p245-250.

**Interactive systems**

VIRCON: Interactive System for Teaching Construction Management, Ali Jaafari, Kitsana K. Manivong and Michel Chaaya, CO Jan./Feb. 01, p66-75.

**Internet**

Project-Specific Web Sites: Friend or Foe? Tony Thorpe and Stephen Mead, CO Sept./Oct. 01, p406-413.

**Joint ventures**

Risk Assessment for Construction Joint Ventures in China, L. Y. Shen, George W. C. Wu and Catherine S. K. Ng, CO Jan./Feb. 01, p76-81.

**Knowledge-based systems**

Case-Based Reasoning Approach in Bid Decision Making, D. K. H. Chua, D. Z. Li and W. T. Chan, CO Jan./Feb. 01, p35-45.

Impact of Rainfall on the Productivity of Highway Construction, Khaled El-Rayes and Osama Moselhi, CO Mar./Apr. 01, p125-131.

**Korea**

Estimation of CO2 Emissions in Life Cycle of Residential Buildings, Seongwon Seo and Yongwoo Hwang, CO Sept./Oct. 01, p414-418.

**Labor**

Estimating Labor Production Rates for Industrial Construction Activities, S. AbouRizk, P. Knowles and U. R. Hermann, CO Nov./Dec. 01, p502-511.

Identifying Root Causes of Construction Accidents, Tariq S. Abdelhamid and John G. Everett, CO Jan./Feb. 00, p52-60.

U.S. Construction Labor Productivity Trends, 1970-1998, Eric Allmon, Carl T. Haas, John D. Borchert and Paul M. Goodrum, CO Mar./Apr. 00, p97-104.

**Life cycles**

Estimation of CO2 Emissions in Life Cycle of Residential Buildings, Seongwon Seo and Yongwoo Hwang, CO Sept./Oct. 01, p414-418.

**Linear systems**

Linear Scheduling Model: Float Characteristics, David J. Harmelink, CO July/Aug. 01, p255-260.

**Maintenance**

Comparison of Two Maintainability Programs, Blia Moua and Jeffrey S. Russell, CO May/June 01, p239-244.

**Malaysia**

Unraveling of BOT Scheme: Malaysia's Indah Water Consortium, Abdul-Rashid Abdul-Aziz, CO Nov./Dec. 01, p457-460.

**Management**

Identifying Root Causes of Construction Accidents, Tariq S. Abdelhamid and John G. Everett, CO Jan./Feb. 00, p52-60.

**Mathematical models**

Resource Scheduling Using Neural Dynamics Model of Adeli and Park, Ahmed B. Senouci and Hojjat Adeli, CO Jan./Feb. 01, p28-34.

**Methodology**

Dynamic Planning and Control Methodology for Design/Build Fast-Track Construction Projects, Feniosky Peña-Mora and Michael Li, CO Jan./Feb. 01, p1-17.

A Methodology for Determining Price Variation in Project Execution, Edem O. P. Akpan and Odinaka Igwe, CO Sept./Oct. 01, p367-373.

**Microwave sensors**

Status of Roller Mountable Microwave Asphalt Pavement Density Sensor, Edward J. Jaselskis, Hsiu C. Han, Jonas Grigas, Lawrence Tan and Daniel Fahriou, CO Jan./Feb. 01, p46-52.

**Models**

Development of Causal Model of Construction Accident Causation, Akhmad Suraji, A. Roy Duff and Stephen J. Peckitt, CO July/Aug. 01, p337-344.

Improvement Algorithm for Limited Space Scheduling, P. P. Zouein and I. D. Tommelein, CO Mar./Apr. 01, p116-124.

Improving Design Coordination for Building Projects. I: Information Model, Tarek Hegazy, Essam Zaneldin and Donald Grierson, CO July/Aug. 01, p322-329.

Improving Design Coordination for Building Projects. II: A Collaborative System, Essam Zaneldin, Tarek Hegazy and Donald Grierson, CO July/Aug. 01, p330-336.

Linear Scheduling Model: Float Characteristics, David J. Harmelink, CO July/Aug. 01, p255-260.

A Methodology for Determining Price Variation in Project Execution, Edem O. P. Akpan and Odinaka Igwe, CO Sept./Oct. 01, p367-373.

Model for Evaluating Bridge Construction Plans, Tamer E. El-Daraby and James T. O'Connor, CO Sept./Oct. 01, p399-405.

Object-Oriented Model for Repetitive Construction Scheduling, Khaled El-Rayes, CO May/June 01, p199-205.

Optimal Repetitive Scheduling Model with Shareable Resource Constraint, Sou-Sen Leu and Shao-Ting Hwang, CO July/Aug. 01, p270-280.

Work-Time Model for Engineers, Andrew Shing-Tao Chang, P.E., CO Mar./Apr. 01, p163-172.

**Monte Carlo method**

Case-Based Reasoning Approach in Bid Decision Making, D. K. H. Chua, D. Z. Li and W. T. Chan, CO Jan./Feb. 01, p35-45.

Simplified CPM/PERT Simulation Model, Ming Lu and S. M. AbouRizk, CO May/June 00, p219-226.

**Nails**

Technological Intervention to Eliminate Back Injury Risks for Nailing, Leonhard E. Bernold, Steven J. Lorenc and Maureen L. Davis, CO May/June 01, p245-250.

**Network analysis**

Project-Specific Web Sites: Friend or Foe? Tony Thorpe and Stephen Mead, CO Sept./Oct. 01, p406-413.

**Networks**

Applying Modified Minimum Moment Method to Multiple Resource Leveling, Mohammed A. Salem Hiyasat, CO May/June 01, p192-198.

**Neural networks**

Estimating Labor Production Rates for Industrial Construction Activities, S. AbouRizk, P. Knowles and U. R. Hermann, CO Nov./Dec. 01, p502-511.

Resource Scheduling Using Neural Dynamics Model of Adeli and Park, Ahmed B. Senouci and Hojjat Adeli, CO Jan./Feb. 01, p28-34.

**Nigeria**

A Methodology for Determining Price Variation in Project Execution, Edem O. P. Akpan and Odinaka Igwe, CO Sept./Oct. 01, p367-373.

Time-Overrun Factors in Nigerian Construction Industry, Augustine Uche Elinwa and Mangwat Joshua, CO Sept./Oct. 01, p419-425.

**Object-oriented languages**

Improving Design Coordination for Building Projects. II: A Collaborative System, Essam Zaneldin, Tarek Hegazy and Donald Grierson, CO July/Aug. 01, p330-336.

**Occupational safety**

Technological Intervention to Eliminate Back Injury Risks for Nailing, Leonhard E. Bernold, Steven J. Lorenc and Maureen L. Davis, CO May/June 01, p245-250.

**Optimization**

Cost Optimization in Projects with Repetitive Nonserial Activities, Tarek Hegazy and Nagib Wassef, CO May/June 01, p183-191.

Optimal Repetitive Scheduling Model with Shareable Resource Constraint, Sou-Sen Leu and Shao-Ting Hwang, CO July/Aug. 01, p270-280.

Optimal Schedule Planning for Multiple Repetitive Construction Process, Leen S. Kang, Il C. Park and Baek H. Lee, CO Sept./Oct. 01, p382-390.

Simplified Spreadsheet Solutions. II. Overall Schedule Optimization, Tarek Hegazy and Tolga Ersahin, CO Nov./Dec. 01, p469-475.

**Optimization models**

Optimizing Resource Utilization for Repetitive Construction Projects, Khaled El-Rayes and Osama Moselhi, CO Jan./Feb. 01, p18-27.

**Painting**

Quality Control Parameters for Robotic Bridge Painting, Yong Bai and Leonhard E. Bernold, CO Mar./Apr. 01, p142-148.

**Parameters**

Quality Control Parameters for Robotic Bridge Painting, Yong Bai and Leonhard E. Bernold, CO Mar./Apr. 01, p142-148.

**Partnerships**

Partnering on Small Construction Projects, Michael A. Conley and Rita A. Gregory, CO Sept./Oct. 99, p320-324.



Procurement Protocols for Public-Private Partnered Projects, Xue-Qing Zhang and Mohan M. Kumaraswamy, CO Sept./Oct. 01, p351-358.

#### Performance evaluation

Customer Satisfaction in Home Building, Zeljko M. Torbica and Robert C. Stroh, CO Jan./Feb. 01, p82-86.

#### Planning

Impact of Rainfall on the Productivity of Highway Construction, Khaled El-Rayes and Osama Mosehli, CO Mar./Apr. 01, p125-131.

#### Predictions

Predicting Accuracy of Early Cost Estimates Based on Estimate Quality, Garold D. Oberlander and Steven M. Trost, CO May/June 01, p173-182.

#### Prefabrication

Just-in-Time Management of Precast Concrete Components, Low Sui Pheng and Choong Joo Chuan, CO Nov./Dec. 01, p494-501.

#### Pricing

Human Effects in Construction Contract Price Forecasting: Experience and Experiential Learning Styles, David J. Lowe and R. Martin Skitmore, CO Nov./Dec. 01, p485-493.

A Methodology for Determining Price Variation in Project Execution, Edem O. P. Akpan and Odinaka Igwe, CO Sept./Oct. 01, p367-373.

#### Private sector

Hong Kong Experience in Managing BOT Projects, Xue-qing Zhang and Mohan M. Kumaraswamy, CO Mar./Apr. 01, p154-162.

Procurement Protocols for Public-Private Partnered Projects, Xue-Qing Zhang and Mohan M. Kumaraswamy, CO Sept./Oct. 01, p351-358.

#### Privatization

Unraveling of BOT Scheme: Malaysia's Indah Water Konsortium, Abdul-Rashid Abdul-Aziz, CO Nov./Dec. 01, p457-460.

#### Problem solving

A Model for Understanding, Preventing, and Resolving Project Disputes, Panagiotis Mitropoulos and Gregory Howell, CO May/June 01, p223-231.

#### Productivity

Earthmoving Productivity Estimation using Linear Regression Techniques, Simon D. Smith, CO May/June 99, p133-141.

Estimating Labor Production Rates for Industrial Construction Activities, S. AbouRizk, P. Knowles and U. R. Hermann, CO Nov./Dec. 01, p502-511.

Impact of Rainfall on the Productivity of Highway Construction, Khaled El-Rayes and Osama Mosehli, CO Mar./Apr. 01, p125-131.

Time Series Analysis for Construction Productivity Experiments, Tariq S. Abdelhamid and John G. Everett, CO Mar./Apr. 99, p87-95.

U.S. Construction Labor Productivity Trends, 1970-1998, Eric Allmon, Carl T. Haas, John D. Borchering and Paul M. Goodrum, CO Mar./Apr. 00, p97-104.

#### Program evaluation

Simplified Program Evaluation and Review Technique (PERT), Wayne D. Cottrell, P.E., CO Jan./Feb. 99, p16-22.

#### Project evaluation

Design and Build Project Success Factors: Multivariate Analysis, Albert P. C. Chan, Danny C. K. Ho and C. M. Tam, CO Mar./Apr. 01, p93-100.

A Methodology for Determining Price Variation in Project Execution, Edem O. P. Akpan and Odinaka Igwe, CO Sept./Oct. 01, p367-373.

Simplified CPM/PERT Simulation Model, Ming Lu and S. M. AbouRizk, CO May/June 00, p219-226.

#### Project management

Approaches for Making Risk-Based GO/NO-GO Decision for International Projects, Seung H. Han and James E. Diekmann, CO July/Aug. 01, p300-308.

Benefits of Constructability on Construction Projects, George Jergas, P.E. and John Van der Put, P.E., CO July/Aug. 01, p281-290.

Comparison of Linear Scheduling Method (LSM) and Critical Path Method (CPM), René A. Yamin and David J. Harmelink, CO Sept./Oct. 01, p374-381.

Comparison of Two Maintainability Programs, Blia Moua and Jeffrey S. Russell, CO May/June 01, p239-244.

Construction Delay Computation Method, Jonathan Jingsheng Shi, S. O. Cheung and David Ardit, CO Jan./Feb. 01, p60-65.

Cost Optimization in Projects with Repetitive Nonserial Activities, Tarek Hegazy and Nagib Wassef, CO May/June 01, p183-191.

Design and Build Project Success Factors: Multivariate Analysis, Albert P. C. Chan, Danny C. K. Ho and C. M. Tam, CO Mar./Apr. 01, p93-100.

Developing a Draft Schedule Using Templates and Rules, Nicola J. Chevallier and Alan D. Russell, CO Sept./Oct. 01, p391-398.

Dynamic Planning for Fast-Tracking Building Construction Projects, Feniosky Pena-Mora and Moonseo Park, CO Nov./Dec. 01, p445-456.

Hong Kong Experience in Managing BOT Projects, Xue-qing Zhang and Mohan M. Kumaraswamy, CO Mar./Apr. 01, p154-162.

Improving Design Coordination for Building Projects. I: Information Model, Tarek Hegazy, Essam Zaneldin and Donald Grierson, CO July/Aug. 01, p322-329.

Improving Design Coordination for Building Projects. II: A Collaborative System, Essam Zaneldin, Tarek Hegazy and Donald Grierson, CO July/Aug. 01, p330-336.

A Model for Understanding, Preventing, and Resolving Project Disputes, Panagiotis Mitropoulos and Gregory Howell, CO May/June 01, p223-231.

Object-Oriented Model for Repetitive Construction Scheduling, Khaled El-Rayes, CO May/June 01, p199-205.

Optimal Schedule Planning for Multiple, Repetitive Construction Process, Leen S. Kang, Il C. Park and Baek H. Lee, CO Sept./Oct. 01, p382-390.

Partnering on Small Construction Projects, Michael A. Conley and Rita A. Gregory, CO Sept./Oct. 99, p320-324.

Probabilistic Optimal-Cost Scheduling, Leroy J. Isidore and W. Edward Back, CO Nov./Dec. 01, p431-437.

Project Management in Construction: Software Use and Research Directions, Matthew J. Liberatore, Bruce Pollack-Johnson and Colleen A. Smith, CO Mar./Apr. 01, p101-107.

Project-Specific Web Sites: Friend or Foe? Tony Thorpe and Stephen Mead, CO Sept./Oct. 01, p406-413.

Time-Overrun Factors in Nigerian Construction Industry, Augustine Uche Elinwa and Mangvwa Joshua, CO Sept./Oct. 01, p419-425.

VIRCON: Interactive System for Teaching Construction Management, Ali Jaafari, Kitsana K. Manivong and Michel Chaaya, CO Jan./Feb. 01, p66-75.

Work-Time Model for Engineers, Andrew Shing-Tao Chang, P.E., CO Mar./Apr. 01, p163-172.

#### Project planning

Resource Scheduling Using Neural Dynamics Model of Adeli and Park, Ahmed B. Senouci and Hojjat Adeli, CO Jan./Feb. 01, p28-34.

#### Protective coatings

Quality Control Parameters for Robotic Bridge Painting, Yong Bai and Leonhard E. Bernold, CO Mar./Apr. 01, p142-148.

#### Quality control

Quality Control Parameters for Robotic Bridge Painting, Yong Bai and Leonhard E. Bernold, CO Mar./Apr. 01, p142-148.

#### Rainfall

Impact of Rainfall on the Productivity of Highway Construction, Khaled El-Rayes and Osama Mosehli, CO Mar./Apr. 01, p125-131.

#### Rapid transit railways

BOT Financial Model: Taiwan High Speed Rail Case, Luh-Maan Chang and Po-Han Chen, CO May/June 01, p214-222.

#### Regression analysis

Earthmoving Productivity Estimation using Linear Regression Techniques, Simon D. Smith, CO May/June 99, p133-141.

#### Resource allocation

Optimizing Resource Utilization for Repetitive Construction Projects, Khaled El-Rayes and Osama Mosehli, CO Jan./Feb. 01, p18-27.

#### Resource management

Applying Modified Minimum Moment Method to Multiple Resource Leveling, Mohammed A. Salem Hiyasat, CO May/June 01, p192-198.

Optimal Repetitive Scheduling Model with Shareable Resource Constraint, Sou-Sen Leu and Shao-Ting Hwang, CO July/Aug. 01, p270-280.

Simulation as a Tool for Resource Management, Tarek M. Zayed and Daniel Halpin, CO Mar./Apr. 01, p132-141.

#### Resources

Applying Modified Minimum Moment Method to Multiple Resource Leveling, Mohammed A. Salem Hiyasat, CO May/June 01, p192-198.

#### Risk analysis

Approaches for Making Risk-Based GO/NO-GO Decision for International Projects, Seung H. Han and James E. Diekmann, CO July/Aug. 01, p300-308.

Construction Surety Bonding, Roohbeh Kangari and Moataz Bakheet, CO May/June 01, p232-238.

Risk Assessment for Construction Joint Ventures in China, L. Y. Shen, George W. C. Wu and Catherine S. K. Ng, CO Jan./Feb. 01, p76-81.

Simplified CPM/PERT Simulation Model, Ming Lu and S. M. AbouRizk, CO May/June 00, p219-226.

#### Robotics

Quality Control Parameters for Robotic Bridge Painting, Yong Bai and Leonhard E. Bernold, CO Mar./Apr. 01, p142-148.

#### Roll compacting

Status of Roller Mountable Microwave Asphalt Pavement Density Sensor, Edward J. Jaselskis, Hsiu C. Han, Jonas Grigas, Lawrence Tan and Daniel Fahrion, CO Jan./Feb. 01, p46-52.

#### Safety analysis

Identifying Root Causes of Construction Accidents, Tariq S. Abdelhamid and John G. Everett, CO Jan./Feb. 00, p52-60.

#### Sampling

Applications of Horizontal Characterization Techniques in Trenchless Construction, Erez N. Allouche, Samuel T. Ariaratnam and Simon M. AbouRizk, CO Nov./Dec. 01, p476-484.

#### Scheduling

Comparison of Linear Scheduling Method (LSM) and Critical Path Method (CPM), René A. Yamin and David J. Harmelink, CO Sept./Oct. 01, p374-381.

Constructability Improvement of Bridges Using Stepping Formwork, Mohamed Enam Abd El-Razek and Ismail M. Basha, CO May/June 01, p206-213.

Construction Delay Computation Method, Jonathan Jingsheng Shi, S. O. Cheung and David Ardit, CO Jan./Feb. 01, p60-65.

Cost Optimization in Projects with Repetitive Nonserial Activities, Tarek Hegazy and Nagib Wassef, CO May/June 01, p183-191.

Developing a Draft Schedule Using Templates and Rules, Nicola J. Chevallier and Alan D. Russell, CO Sept./Oct. 01, p391-398.

Impact of Rainfall on the Productivity of Highway Construction, Khaled El-Rayes and Osama Mosehli, CO Mar./Apr. 01, p125-131.

Improvement Algorithm for Limited Space Scheduling, P. P. Zouein and I. D. Tommelein, CO Mar./Apr. 01, p116-124.

Linear Scheduling Model: Float Characteristics, David J. Harmelink, CO July/Aug. 01, p255-260.

Object-Oriented Model for Repetitive Construction Scheduling, Khaled El-Rayes, CO May/June 01, p199-205.

Optimal Repetitive Scheduling Model with Shareable Resource Constraint, Sou-Sen Leu and Shao-Ting Hwang, CO July/Aug. 01, p270-280.

Optimal Schedule Planning for Multiple, Repetitive Construction Process, Leen S. Kang, Il C. Park and Baek H. Lee, CO Sept./Oct. 01, p382-390.

Optimizing Resource Utilization for Repetitive Construction Projects, Khaled El-Rayes and Osama Mosehli, CO Jan./Feb. 01, p18-27.

Optimum Planning of Highway Construction under A + B Bidding Method, Khaled El-Rayes, CO July/Aug. 01, p261-269.

Probabilistic Optimal-Cost Scheduling, Leroy J. Isidore and W. Edward Back, CO Nov./Dec. 01, p431-437.

Project Management in Construction: Software Use and Research Directions, Matthew J. Liberatore, Bruce Pollack-Johnson and Colleen A. Smith, CO Mar./Apr. 01, p101-107.

Resource Scheduling Using Neural Dynamics Model of Adeli and Park, Ahmed B. Senouci and Hojjat Adeli, CO Jan./Feb. 01, p28-34.

Simplified Program Evaluation and Review Technique (PERT), Wayne D. Cottrell, P.E., CO Jan./Feb. 99, p16-22.

Simplified Spreadsheet Solutions. II. Overall Schedule Optimization, Tarek Hegazy and Tolga Ersahin, CO Nov./Dec. 01, p469-475.

**Sewage**

Unraveling of BOT Scheme: Malaysia's Indah Water Konsortium, Abdul-Rashid Abdul-Aziz, CO Nov./Dec. 01, p457-460.

**Shoring**

Design and Construction of High Multitier Shoring Towers: Case Study, Aviad Shapira, Yaakov Shahar and Yoram Raz, CO Mar./Apr. 01, p108-115.

**Simulation**

Simulation as a Tool for Resource Management, Tarek M. Zayed and Daniel Halpin, CO Mar./Apr. 01, p132-141.

**Simulation models**

Simplified CPM/PERT Simulation Model, Ming Lu and S. M. AbouRizk, CO May/June 00, p219-226.

**Spraying**

Dust Suppression Using Truck-Mounted Water Spray System, John A. Gambatese, P.E. and David E. James, P.E., CO Jan./Feb. 01, p53-59.

**Spreadsheets**

Cost Optimization in Projects with Repetitive Nonserial Activities, Tarek Hegazy and Nagib Wassef, CO May/June 01, p183-191.

Simplified Spreadsheet Solutions. I. Subcontractor Information System, Tarek Hegazy and Tolga Ersahin, CO Nov./Dec. 01, p461-468.

Simplified Spreadsheet Solutions. II. Overall Schedule Optimization, Tarek Hegazy and Tolga Ersahin, CO Nov./Dec. 01, p469-475.

**Statistical analysis**

Case-Based Reasoning Approach in Bid Decision Making, D. K. H. Chua, D. Z. Li and W. T. Chan, CO Jan./Feb. 01, p35-45.

**Statistical models**

Bid-Spread, Martin Skitmore, Derek Drew and Stephen Ngai, CO Mar./Apr. 01, p149-153.

**Subcontractors**

Simplified Spreadsheet Solutions. I. Subcontractor Information System, Tarek Hegazy and Tolga Ersahin, CO Nov./Dec. 01, p461-468.

**Taiwan**

BOT Financial Model: Taiwan High Speed Rail Case, Luh-Maan Chang and Po-Han Chen, CO May/June 01, p214-222.

**Teaching methods**

VIRCON: Interactive System for Teaching Construction Management, Ali Jaafari, Kitsana K. Manivong and Michel Chaaya, CO Jan./Feb. 01, p66-75.

**Technology**

U.S. Construction Labor Productivity Trends, 1970-1998, Eric Allmon, Carl T. Haas, John D. Borcharding and Paul M. Goodrum, CO Mar./Apr. 00, p97-104.

**Tests**

Evaluation of Drug Testing in the Workplace: Study of the Construction Industry, Jonathan K. Gerber and George S. Yacoubian, Jr., CO Nov./Dec. 01, p438-444.

**Time factors**

Time-Overrun Factors in Nigerian Construction Industry, Augustine Uche Elinwa and Mangwat Joshua, CO Sept./Oct. 01, p419-425.

Work-Time Model for Engineers, Andrew Shing-Tao Chang, P.E., CO Mar./Apr. 01, p163-172.

**Time series analysis**

Time Series Analysis for Construction Productivity Experiments, Tariq S. Abdelhamid and John G. Everett, CO Mar./Apr. 99, p87-95.

**Towers**

Design and Construction of High Multitier Shoring Towers: Case Study, Aviad Shapira, Yaakov Shahar and Yoram Raz, CO Mar./Apr. 01, p108-115.

**Transportation systems**

BOT Financial Model: Taiwan High Speed Rail Case, Luh-Maan Chang and Po-Han Chen, CO May/June 01, p214-222.

**Trenchless technology**

Applications of Horizontal Characterization Techniques in Trenchless Construction, Erez N. Allouche, Samuel T. Ariaratnam and Simon M. AbouRizk, CO Nov./Dec. 01, p476-484.

**Trends**

U.S. Construction Labor Productivity Trends, 1970-1998, Eric Allmon, Carl T. Haas, John D. Borcharding and Paul M. Goodrum, CO Mar./Apr. 00, p97-104.

**Trucks**

Dust Suppression Using Truck-Mounted Water Spray System, John A. Gambatese, P.E. and David E. James, P.E., CO Jan./Feb. 01, p53-59.

**Tunnel construction**

Hong Kong Experience in Managing BOT Projects, Xue-qing Zhang and Mohan M. Kumaraswamy, CO Mar./Apr. 01, p154-162.

**U.S. Army Corps of Engineers**

Partnering on Small Construction Projects, Michael A. Conley and Rita A. Gregory, CO Sept./Oct. 99, p320-324.

**Water tanks**

Dust Suppression Using Truck-Mounted Water Spray System, John A. Gambatese, P.E. and David E. James, P.E., CO Jan./Feb. 01, p53-59.

**Workspace**

Optimal Schedule Planning for Multiple, Repetitive Construction Process, Leen S. Kang, Il C. Park and Bae H. Lee, CO Sept./Oct. 01, p382-390.

## AUTHOR INDEX

**Abdelhamid, Tariq S.**

- Identifying Root Causes of Construction Accidents, with John G. Everett, CO Jan./Feb. 00, p52-60  
disc: Alistair Gibb, Sophie Hide, Roger Haslam and Sarah Hastings, CO July/Aug. 01, p348  
disc: Akhmad Suraji and A. Roy Duff, CO July/Aug. 01, p348-349  
clo: CO July/Aug. 01, p349  
Time Series Analysis for Construction Productivity Experiments, with John G. Everett, CO Mar./Apr. 99, p87-95  
disc: Arun Kumar and Vijay K. Minocha, CO May/June 01, p252  
clo: CO May/June 01, p252-253

**Abdul-Aziz, Abdul-Rashid**

- Unraveling of BOT Scheme: Malaysia's Indah Water Konsortium, CO Nov./Dec. 01, p457-460

**AbouRizk, S.**

- Estimating Labor Production Rates for Industrial Construction Activities, with P. Knowles and U. R. Hermann, CO Nov./Dec. 01, p502-511

**AbouRizk, S. M.**

- see Lu, Ling, CO May/June 00, p219-226

**AbouRizk, Simon M.**

- see Allouche, Erez N., CO Nov./Dec. 01, p476-484

**Adeli, Hojjat**

- see Senouci, Ahmed B., CO Jan./Feb. 01, p28-34

**Akpan, Edem O. P.**

- A Methodology for Determining Price Variation in Project Execution, with Odinaka Igwe, CO Sept./Oct. 01, p367-373

**Allmon, Eric**

- U.S. Construction Labor Productivity Trends, 1970-1998, with Carl T. Haas, John D. Borcharding and Paul M. Goodrum, CO Mar./Apr. 00, p97-104  
disc: Paul Teicholz, CO Sept./Oct. 01, p427-428  
clo: CO Sept./Oct. 01, p428-429

**Allouche, Erez N.**

- Applications of Horizontal Characterization Techniques in Trenchless Construction, with Samuel T. Ariaratnam and Simon M. AbouRizk, CO Nov./Dec. 01, p476-484

**Ameen, Jamal**

- see Neale, Richard, (disc), CO May/June 99, p133-141

**Arditi, David**

- see Shi, Jonathan Jingsheng, CO Jan./Feb. 01, p60-65

**Ariaratnam, Samuel T.**

- see Allouche, Erez N., CO Nov./Dec. 01, p476-484

**Back, W. Edward**

- see Isidore, Leroy J., CO Nov./Dec. 01, p431-437

**Bai, Yong**

- Quality Control Parameters for Robotic Bridge Painting, with Leonhard E. Bernold, CO Mar./Apr. 01, p142-148

**Bakheet, Moataz**

- see Kangari, Roozbeh, CO May/June 01, p232-238

**Basha, Ismail M.**

- see El-Razek, Mohamed Emam Abd, CO May/June 01, p206-213

**Bennett, F. Lawrence**

- disc. (of Simplified CPM/PERT Simulation Model, by Ming Lu and S. M. AbouRizk, CO May/June 00, p219-226), CO Nov./Dec. 01, p513-514

**Bernold, Leonhard E.**

- Technological Intervention to Eliminate Back Injury Risks for Nailing, with Steven J. Lorenc and Maureen L. Davis, CO May/June 01, p245-250  
see Bai, Yong, CO Mar./Apr. 01, p142-148

**Borcharding, John D.**

- see Allmon, Eric, CO Mar./Apr. 00, p97-104

**Brothers, Heidi S., P.E.**

- see Henry, Elwood, CO Sept./Oct. 01, p359-366

**Carr, Paul G., P.E.**

- see Kannan, Govindar, (disc), CO Jan./Feb. 99, p16-22

**Chaaya, Michel**

- see Jaafari, Ali, CO Jan./Feb. 01, p66-75

**Chan, Albert P. C.**

- Design and Build Project Success Factors: Multivariate Analysis, with Danny C. K. Ho and C. M. Tam, CO Mar./Apr. 01, p93-100

**Chan, W. T.**

- see Chua, D. K. H., CO Jan./Feb. 01, p35-45

**Chan, Wilson K. W.**

- see Tam, C. M., CO July/Aug. 01, p315-321

**Chang, Andrew Shing-Tao, P.E.**

- Work-Time Model for Engineers, CO Mar./Apr. 01, p163-172

**Chang, Luh-Maan**

- BOT Financial Model: Taiwan High Speed Rail Case, with Po-Han Chen, CO May/June 01, p214-222

**Chen, Po-Han**

- see Chang, Luh-Maan, CO May/June 01, p214-222

**Cheng, Min-Yuan**

- GIS-Based Cost Estimates Integrating with Material Layout Planning, with Shin-Ching Yang, CO July/Aug. 01, p291-299

**Cheung, S. O.**

- see Shi, Jonathan Jingsheng, CO Jan./Feb. 01, p60-65

**Chevallier, Nicola J.**

- Developing a Draft Schedule Using Templates and Rules, with Alan D. Russell, CO Sept./Oct. 01, p391-398

**Chua, D. K. H.**

- Case-Based Reasoning Approach in Bid Decision Making, with D. Z. Li and W. T. Chan, CO Jan./Feb. 01, p35-45

**Chuan, Choong Joo**

- see Pheng, Low Sui, CO Nov./Dec. 01, p494-501

**Conley, Michael A.**

- Partnering on Small Construction Projects, with Rita A. Gregory, CO Sept./Oct. 99, p320-324  
disc: C. Edwin Haltenhoff, P.E., CO July/Aug. 01, p346-347  
clo: CO July/Aug. 01, p347

**Cottrell, Wayne D., P.E.**

- Simplified Program Evaluation and Review Technique (PERT), CO Jan./Feb. 99, p16-22  
disc: Govindar Kannan and Paul G. Carr, P.E., CO Jan./Feb. 01, p89-90  
clo: CO Jan./Feb. 01, p90-91

**Davis, Maureen L.**

- see Bernold, Leonhard E., CO May/June 01, p245-250

**Diekmann, James E.**

- see Han, Seung H., CO July/Aug. 01, p300-308

**Drew, Derek**

- see Skitmore, Martin, CO Mar./Apr. 01, p149-153

**Duff, A. Roy**

- see Suraji, Akhmad, CO July/Aug. 01, p337-344  
see Suraji, Akhmad, (disc), CO Jan./Feb. 00, p52-60

**Edum-Fotwe, F.**

- see Kululanga, G. K., CO July/Aug. 01, p309-314

**El-Diraby, Tamer E.**

- Model for Evaluating Bridge Construction Plans, with James T. O'Connor, CO Sept./Oct. 01, p399-405

**Elinwa, Augustine Uche**

- Time-Overrun Factors in Nigerian Construction Industry, with Mangwat Joshua, CO Sept./Oct. 01, p419-425

**El-Rayes, Khaled**

- Impact of Rainfall on the Productivity of Highway Construction, with Osama Moselhi, CO Mar./Apr. 01, p125-131

- Object-Oriented Model for Repetitive Construction Scheduling, CO May/June 01, p199-205

- Optimizing Resource Utilization for Repetitive Construction Projects, with Osama Moselhi, CO Jan./Feb. 01, p18-27

- Optimum Planning of Highway Construction under A + B Bidding Method, CO July/Aug. 01, p261-269

**El-Razek, Mohamed Emam Abd**

- Constructability Improvement of Bridges Using Stepping Formwork, with Ismail M. Basha, CO May/June 01, p206-213

**Ersahin, Tolga**

- see Hegazy, Tarek, CO Nov./Dec. 01, p461-468

- see Hegazy, Tarek, CO Nov./Dec. 01, p469-475

**Everett, John G.**

- see Abdelhamid, Tariq S., CO Mar./Apr. 99, p87-95

- see Abdelhamid, Tariq S., CO Jan./Feb. 00, p52-60

**Fahriou, Daniel**

- see Jaselskis, Edward J., CO Jan./Feb. 01, p46-52

**Gambatese, John A., P.E.**

- Dust Suppression Using Truck-Mounted Water Spray System, with David E. James, P.E., CO Jan./Feb. 01, p53-59

**Gerber, Jonathan K.**

- Evaluation of Drug Testing in the Workplace: Study of the Construction Industry, with George S. Yacoubian, Jr., CO Nov./Dec. 01, p438-444

**Gibb, Alistair**

- disc. (of Identifying Root Causes of Construction Accidents, by Tariq S. Abdelhamid and John G. Everett, CO Jan./Feb. 00, p52-60) with Sophie Hide, Roger Haslam and Sarah Hastings, CO July/Aug. 01, p348

**Goodrum, Paul M.**

- see Allmon, Eric, CO Mar./Apr. 00, p97-104

**Gregory, Rita A.**

- see Conley, Michael A., CO Sept./Oct. 99, p320-324

**Grierson, Donald**

- see Hegazy, Tarek, CO July/Aug. 01, p322-329

- see Zaneldin, Essam, CO July/Aug. 01, p330-336

**Grigas, Jonas**

- see Jaselskis, Edward J., CO Jan./Feb. 01, p46-52

**Haas, Carl T.**

- see Allmon, Eric, CO Mar./Apr. 00, p97-104

**Halpin, Daniel**

- see Zayed, Tarek M., CO Mar./Apr. 01, p132-141

**Haltenhoff, C. Edwin, P.E.**

- disc. (of Partnering on Small Construction Projects, by Michael A. Conley and Rita A. Gregory, CO Sept./Oct. 99, p320-324), CO July/Aug. 01, p346-347

**Han, Hsiu C.**

- see Jaselskis, Edward J., CO Jan./Feb. 01, p46-52

**Han, Seung H.**

- Approaches for Making Risk-Based GO/NO-GO Decision for International Projects, with James E. Diekmann, CO July/Aug. 01, p300-308

**Harmelink, David J.**

- Linear Scheduling Model: Float Characteristics, CO July/Aug. 01, p255-260

- see Yamin, René A., CO Sept./Oct. 01, p374-381

**Haslam, Roger**

- see Gibb, Alistair, (disc), CO Jan./Feb. 00, p52-60

**Hastings, Sarah**

- see Gibb, Alistair, (disc), CO Jan./Feb. 00, p52-60

**Hegazy, Tarek**

- Cost Optimization in Projects with Repetitive Nonserial Activities, with Nagib Wassef, CO May/June 01, p183-191

- Improving Design Coordination for Building Projects. I: Information Model, with Essam Zaneldin and Donald Grierson, CO July/Aug. 01, p322-329

- Simplified Spreadsheet Solutions. I. Subcontractor Information System, with Tolga Ersahin, CO Nov./Dec. 01, p461-468

- Simplified Spreadsheet Solutions. II. Overall Schedule Optimization, with Tolga Ersahin, CO Nov./Dec. 01, p469-475

- see Zaneldin, Essam, CO July/Aug. 01, p330-336

**Henry, Elwood**

- Cost Analysis between SABER and Design Bid Build Contracting Methods, with Heidi S. Brothers, P.E., CO Sept./Oct. 01, p359-366

**Hermann, U. R.**

- see AbouRizk, S., CO Nov./Dec. 01, p502-511

**Hide, Sophie**

- see Gibb, Alistair, (disc), CO Jan./Feb. 00, p52-60

**Hiyassat, Mohammed A. Salem**

- Applying Modified Minimum Moment Method to Multiple Resource Leveling, CO May/June 01, p192-198

**Ho, Danny C. K.**

- see Chan, Albert P. C., CO Mar./Apr. 01, p93-100

**Howell, Gregory**

- see Mitropoulos, Panagiotis, CO May/June 01, p223-231

**Hwang, Shao-Ting**

- see Leu, Sou-Sen, CO July/Aug. 01, p270-280

**Hwang, Yongwoo**

- see Seo, Seongwon, CO Sept./Oct. 01, p414-418

**Igwe, Odinaka**

- see Akpan, Edem O. P., CO Sept./Oct. 01, p367-373

- Isidore, Leroy J.**  
Probabilistic Optimal-Cost Scheduling, with W. Edward Back, CO Nov./Dec. 01, p431-437
- Jaafari, Ali**  
VIRCON: Interactive System for Teaching Construction Management, with Kitsana K. Manivong and Michel Chaaya, CO Jan./Feb. 01, p66-75
- James, David E., P.E.**  
see Gambatese, John A., P.E., CO Jan./Feb. 01, p53-59
- Jaselskis, Edward J.**  
Status of Roller Mountable Microwave Asphalt Pavement Density Sensor, with Hsiu C. Han, Jonas Grigas, Lawrence Tan and Daniel Fahrion, CO Jan./Feb. 01, p46-52
- Jergeas, George, P.E.**  
Benefits of Constructability on Construction Projects, with John Van der Put, P.E., CO July/Aug. 01, p281-290
- Joshua, Mangwvat**  
see Elinwa, Augustine Uche, CO Sept./Oct. 01, p419-425
- Kang, Leen S.**  
Optimal Schedule Planning for Multiple, Repetitive Construction Process, with Il C. Park and Bae H. Lee, CO Sept./Oct. 01, p382-390
- Kangari, Rouzbeh**  
Construction Surety Bonding, with Moataz Bakheet, CO May/June 01, p232-238
- Kannan, Govindar**  
disc. (of Simplified Program Evaluation and Review Technique (PERT), by Wayne D. Cottrell, P.E., CO Jan./Feb. 99, p16-22) with Paul G. Carr, P.E., CO Jan./Feb. 01, p89-90
- Knowles, P.**  
see AbouRizk, S., CO Nov./Dec. 01, p502-511
- Kululanga, G. K.**  
Construction Contractors Claim Process Framework, with W. Kuotcha, R. McCaffer and F. Edum-Fotwe, CO July/Aug. 01, p309-314
- Kumar, Arun**  
disc. (of Time Series Analysis for Construction Productivity Experiments, by Tariq S. Abdelhamid and John G. Everett, CO Mar./Apr. 99, p87-95) with Vijay K. Minocha, CO May/June 01, p252
- Kumaraswamy, Mohan M.**  
see Zhang, Xue-qing, CO Mar./Apr. 01, p154-162  
see Zhang, Xue-Qing, CO Sept./Oct. 01, p351-358
- Kuotcha, W.**  
see Kululanga, G. K., CO July/Aug. 01, p309-314
- Lee, Bae H.**  
see Kang, Leen S., CO Sept./Oct. 01, p382-390
- Leu, Sou-Sen**  
Optimal Repetitive Scheduling Model with Shareable Resource Constraint, with Shao-Ting Hwang, CO July/Aug. 01, p270-280
- Li, D. Z.**  
see Chua, D. K. H., CO Jan./Feb. 01, p35-45
- Li, Michael**  
see Peña-Mora, Feniosky, CO Jan./Feb. 01, p1-17
- Liberatore, Matthew J.**  
Project Management in Construction: Software Use and Research Directions, with Bruce Pollack-Johnson and Colleen A. Smith, CO Mar./Apr. 01, p101-107
- Lorenc, Steven J.**  
see Bernold, Leonhard E., CO May/June 01, p245-250
- Lowe, David J.**  
Human Effects in Construction Contract Price Forecasting: Experience and Experiential Learning Styles, with R. Martin Skitmore, CO Nov./Dec. 01, p485-493
- Lu, Ming**  
Simplified CPM/PERT Simulation Model, with S. M. AbouRizk, CO May/June 00, p219-226  
disc: F. Lawrence Bennett, CO Nov./Dec. 01, p513-514  
clo: CO Nov./Dec. 01, p515
- Manivong, Kitsana K.**  
see Jaafari, Ali, CO Jan./Feb. 01, p66-75
- McCaffer, R.**  
see Kululanga, G. K., CO July/Aug. 01, p309-314
- Mead, Stephen**  
see Thorpe, Tony, CO Sept./Oct. 01, p406-413
- Minocha, Vijay K.**  
see Kumar, Arun, (disc), CO Mar./Apr. 99, p87-95
- Mitropoulos, Panagiotis**  
A Model for Understanding, Preventing, and Resolving Project Disputes, with Gregory Howell, CO May/June 01, p223-231
- Moselhi, Osama**  
see El-Rayes, Khaled, CO Jan./Feb. 01, p18-27  
see El-Rayes, Khaled, CO Mar./Apr. 01, p125-131
- Moua, Bli**  
Comparison of Two Maintainability Programs, with Jeffrey S. Russell, CO May/June 01, p239-244
- Neale, Richard**  
disc. (of Earthmoving Productivity Estimation using Linear Regression Techniques, by Simon D. Smith, CO May/June 99, p133-141) with Jamal Ameen, CO Jan./Feb. 01, p88
- Ng, Catherine S. K.**  
see Shen, L. Y., CO Jan./Feb. 01, p76-81
- Ngai, Stephen**  
see Skitmore, Martin, CO Mar./Apr. 01, p149-153
- Oberlender, Garold D.**  
Predicting Accuracy of Early Cost Estimates Based on Estimate Quality, with Steven M. Trost, CO May/June 01, p173-182
- O'Connor, James T.**  
see El-Diraby, Tamer E., CO Sept./Oct. 01, p399-405
- Park, Il C.**  
see Kang, Leen S., CO Sept./Oct. 01, p382-390
- Park, Moonseo**  
see Pena-Mora, Feniosky, CO Nov./Dec. 01, p445-456
- Peckitt, Stephen J.**  
see Suraji, Akhmad, CO July/Aug. 01, p337-344
- Peña-Mora, Feniosky**  
Dynamic Planning and Control Methodology for Design/Build Fast-Track Construction Projects, with Michael Li, CO Jan./Feb. 01, p1-17
- Pena-Mora, Feniosky**  
Dynamic Planning for Fast-Tracking Building Construction Projects, with Moonseo Park, CO Nov./Dec. 01, p445-456
- Pheng, Low Sui**  
Just-in-Time Management of Precast Concrete Components, with Cheong Joo Chuan, CO Nov./Dec. 01, p494-501
- Pollack-Johnson, Bruce**  
see Liberatore, Matthew J., CO Mar./Apr. 01, p101-107
- Raz, Yoram**  
see Shapira, Avi, CO Mar./Apr. 01, p108-115
- Russell, Alan D.**  
see Chevallier, Nicola J., CO Sept./Oct. 01, p391-398
- Russell, Jeffrey S.**  
see Moua, Bli, CO May/June 01, p239-244
- Senouci, Ahmed B.**  
Resource Scheduling Using Neural Dynamics Model of Adeli and Park, with Hoojat Adeli, CO Jan./Feb. 01, p28-34
- Seo, Seongwon**  
Estimation of CO<sub>2</sub> Emissions in Life Cycle of Residential Buildings, with Yongwoo Hwang, CO Sept./Oct. 01, p414-418
- Shahar, Yaakov**  
see Shapira, Avi, CO Mar./Apr. 01, p108-115
- Shapira, Avi**  
Design and Construction of High Multitier Shoring Towers: Case Study, with Yaakov Shahar and Yoram Raz, CO Mar./Apr. 01, p108-115
- Shen, L. Y.**  
Risk Assessment for Construction Joint Ventures in China, with George W. C. Wu and Catherine S. K. Ng, CO Jan./Feb. 01, p76-81
- Shi, Jonathan Jingsheng**  
Construction Delay Computation Method, with S. O. Cheung and David Arditi, CO Jan./Feb. 01, p60-65
- Skitmore, Martin**  
Bid-Spread, with Derek Drew and Stephen Ngai, CO Mar./Apr. 01, p149-153
- Skitmore, R. Martin**  
see Lowe, David J., CO Nov./Dec. 01, p485-493
- Smith, Colleen A.**  
see Liberatore, Matthew J., CO Mar./Apr. 01, p101-107
- Smith, Simon D.**  
Earthmoving Productivity Estimation using Linear Regression Techniques, CO May/June 99, p133-141
- disc: Richard Neale and Jamal Ameen, CO Jan./Feb. 01, p88  
clo: CO Jan./Feb. 01, p88-89
- Stroh, Robert C.**  
see Torbica, Zeljko M., CO Jan./Feb. 01, p82-86
- Suraji, Akhmad**  
Development of Causal Model of Construction Accident Causation, with A. Roy Duff and Stephen J. Peckitt, CO July/Aug. 01, p337-344  
disc. (of Identifying Root Causes of Construction Accidents, by Tariq S. Abdelhamid and John G. Everett, CO Jan./Feb. 00, p52-60) with A. Roy Duff, CO July/Aug. 01, p348-349
- Tam, C. M.**  
Genetic Algorithm for Optimizing Supply Locations around Tower Crane, with Thomas K. L. Tong and Wilson K. W. Chan, CO July/Aug. 01, p315-321  
see Chan, Albert P. C., CO Mar./Apr. 01, p93-100
- Tan, Lawrence**  
see Jaselskis, Edward J., CO Jan./Feb. 01, p46-52
- Teicholz, Paul**  
disc. (of U.S. Construction Labor Productivity Trends, 1970-1998, by Eric Allmon, Carl T. Haas, John D. Borchering and Paul M. Goodrum, CO Mar./Apr. 00, p97-104), CO Sept./Oct. 01, p427-428
- Thorpe, Tony**  
Project-Specific Web Sites: Friend or Foe?, with Stephen Mead, CO Sept./Oct. 01, p406-413
- Tommelein, I. D.**  
see Zouein, P. P., CO Mar./Apr. 01, p116-124
- Tong, Thomas K. L.**  
see Tam, C. M., CO July/Aug. 01, p315-321
- Torbica, Zeljko M.**  
Customer Satisfaction in Home Building, with Robert C. Stroh, CO Jan./Feb. 01, p82-86
- Trost, Steven M.**  
see Oberlender, Garold D., CO May/June 01, p173-182
- Van der Put, John, P.E.**  
see Jergeas, George, P.E., CO July/Aug. 01, p281-290
- Wasf, Nagib**  
see Hegazy, Tarek, CO May/June 01, p183-191
- Wu, George W. C.**  
see Shen, L. Y., CO Jan./Feb. 01, p76-81
- Yacoubian, George S., Jr.**  
see Gerber, Jonathan K., CO Nov./Dec. 01, p438-444
- Yamin, René A.**  
Comparison of Linear Scheduling Method (LSM) and Critical Path Method (CPM), with David J. Harmelink, CO Sept./Oct. 01, p374-381
- Yang, Shin-Ching**  
see Cheng, Min-Yuan, CO July/Aug. 01, p291-299
- Zaneldin, Essam**  
Improving Design Coordination for Building Projects. II: A Collaborative System, with Tarek Hegazy and Donald Grierson, CO July/Aug. 01, p330-336  
see Hegazy, Tarek, CO July/Aug. 01, p322-329
- Zayed, Tarek M.**  
Simulation as a Tool for Resource Management, with Daniel Halpin, CO Mar./Apr. 01, p132-141
- Zhang, Xue-qing**  
Hong Kong Experience in Managing BOT Projects, with Mohan M. Kumaraswamy, CO Mar./Apr. 01, p154-162
- Zhang, Xue-Qing**  
Procurement Protocols for Public-Private Partnered Projects, with Mohan M. Kumaraswamy, CO Sept./Oct. 01, p351-358
- Zouein, P. P.**  
Improvement Algorithm for Limited Space Scheduling, with I. D. Tommelein, CO Mar./Apr. 01, p116-124